



INDIANA UNIVERSITY

*Latent Semantic Analysis
and the
Chymistry of Isaac Newton*

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Chymistry of Isaac Newton Project
Indiana University, Bloomington
www.chymistry.org



The Chymistry of Isaac Newton

BROWSE MANUSCRIPTS

Isaac Newton, like Albert Einstein, is a quintessential symbol of the human intellect and its ability to decode the secrets of nature. Newton's fundamental contributions to science include the quantification of gravitational attraction, the discovery that white light is actually a mixture of immutable spectral colors, and the formulation of the calculus. Yet there is another, more mysterious side to Newton that is imperfectly known, a realm of activity that spanned some thirty years of his life, although he kept it largely hidden from his contemporaries and colleagues. We refer to Newton's involvement in the discipline of alchemy, or as it was often called in seventeenth-century England, "chymistry." Newton wrote and transcribed about a million words on the subject of alchemy. Newton's alchemical manuscripts include a rich and diverse set of document types, including laboratory notebooks, indices of alchemical substances, and Newton's transcriptions from other sources.



Enlarged Portion of Babson 416, Page Two

FEATURED MANUSCRIPTS

[Of Natures obvious laws & processes in vegetation](#)

[Sr George Ripley His Epistle to K Edward Of ye first Gate](#)

SITE TOOLS

[Latent Semantic Analysis](#)

Computational tools to aid analysis of the language and projects encompassed in Newton's alchemical manuscripts.

[Index Chymicus](#)

Alphabetically sorted, user-friendly version of Newton's Index Chymicus (Keynes 30-1) manuscript.

[...more](#)

[Alchemy and Optics](#)

[Mineral Acids](#)

[Transmutation](#)

PREPRINT ARTICLE:

["Newton's Early Optical Theory and its Debt to Chymistry"](#)

This article provides the first evidence that Newton's radical discoveries in the realm of light and color owed a significant debt to his alchemical research.



With the support of the National Science Foundation and the National Endowment for the Humanities, The Chymistry of Isaac Newton is producing a scholarly online edition as one part of an integrated project that includes new research on Newton's chymistry. Currently, the project focus is to build a repository of searchable transcriptions with page images. Our ultimate goal is to provide complete annotations for each manuscript and comprehensive interactive tools for working with the texts.

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Keynes MS. 91, King's College Library, Cambridge University

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The Pondus in Dissecting the Subject Matter;

every Distillation is something better than halfe
a Bushel; and ten of those goe to the making of an
Egge; which is about six Bushels; that yields in the
Wintertime more Superior Waters, than in the
summer, and soe doth the Subject Matter afford. some
more than othersome, one being more rich than
another; but it generally gives of Superior Waters
about four Pounds, and of the Inferior about
fourteen pounds, and some odd Ounces.

In Calcining the Caput Mortuum, the white flowers
which Sublime in the Retort from those Ten
Distillations are about Ten and at the most Twelve Ounces; and the
vineger Thirty six, or forty Ounces: And as to the Red
Earth, 'tis about Twenty eight or Thirty Pounds, which
gives not above fourteen Ounces or a Pound of
vitriolick Salt.

<The following three lines are in Newton's hand.>

In these reckonings a pound is taken for 16 ounces Troy.
The spirit of wine of 10 distillations weighed 3pound 2ounce 1drachm weight
or 50 1/20 ounces Troy, besides the corrosive oyle.

Having in the former Experiments gone through some Truth some Errors, & the whole both in Practice & Theory Indigested I shall now come (as Experience hath Ripen'd my Understanding) to give a certain & Loyal Process of the true Proceeding of the which (Blessed be God) I am fully satisfied that I am a Master; therein I shall show not onely the Formation of the Body, but also its Animation & Exaltation by a Successive Number of Eagles, & also continue the Hunting of the Green. Lyon: and although I call the Blood the Green. Lyon, which is more properly the Fiery Dragon, which holds the Magical Chalybs in his own Belly i. e. an Incombustible white Mercurial Oyl, which is Produced by the fire of Union or dry Water, or that ☿ which Congeals ♀ in its mercurial Pondus, freeing it from its Hydropical water (tho' the Body is form'd by the white & Red Earth, in the Prepared Spermy water, as hath been several times - shown; and likewise *Assatiated* which the Sublimate & vineger which is still Legal & true) yet without the Antimonial and Sulphureous fire, or Philosophic Lune & Pontanus's fire which is truly & properly the Green Lyon, no Exaltation can be made: for as they Act in Unity one with another,

soe

<2v> Page Image

So are the Names Convertible, according to the Alteration of the Compound: and indeed tis no matter what the Names are, things themselves being rightly Understood: Dunstan saith That Green - Lyon, White fume & Assa faetida are one thing which is not onely the Property of our dry Water, not wetting the hand, & yet a Sulphureous fire; but also of the blood & Red *[unknown]* when distil'd; but this must not be Distill'd, untill of such Strength, that the Spirit may be Separated from the Blood; but must be Exalted by a Natural Process: the whole Mystery

Aegyptus humiditatis Persia siccitatis regio. Ind. Aegyptus et Persia pro Persia
10 37 1800. R. Boner rinaricensis p. 638. Anonyma Arte chym. vol. 1. p.

~~Esquis~~
 chlor vapor metallicus Nov. Lum. p. 57, 59, 63 mercurius volatilis Mair
 emb. p. 2. Mercurius partium novum vel Ocean. Novum Lum. p. 68, 69. Elementum
 Senior p. 4. Mair Sept. p. 108. Hydrog. p. 28. R. p. 106. Plant. 13.
 olei seu spiritus rectif. Antidot. p. 275, 276 aly passim. Metallum ex quo fit al
 philosophicus Intr. apud. p. 5, 10, 11.

As (Venus, Laton) ponitur generaliter pro sulphure. Vnde Rosarius mi-
nor p. 670 & Anonymus in Th. Ch. vol. 3 p. 16. ^{et Rosar. minor p. 242. et Rosarius p. 24} omne ~~est~~ ^{est} as sed
omne as non est aurum, quia differunt ut genus et species. Et alij:
As philosophorum est aurum rorum. Et Mercurius in Turba sive 28
vol 5 Thral. Chem. dicit As quod vos iussi regere sunt ista quatuor
corpora & Flamellus Annol. p. 783. Venus est corpus, & rursus, Venus
sunt ista quatuor corpora. Ponitur itaq; ~~in Turba & alijs pro con-~~
~~si corpore quod in aqua coquitur~~ ^{nam} pro metallis imperfectis, ut pro
ferro et plumbo Th. Ch. vol. 2. p. 237. ^{Aurora consurg. p. 141} pro auro vel nostro vel
vulgi. ib. et Turba p. 16. pro Elixire rubro tingente Th. Ch. v. 2
p. 232 & v. 3 p. 162. ^{Turba p. 8, 9, 16} pro corpore quod in & coquitur, et maxime
pro elemento terra id est sale fixo seu Latona dealbando. Tur-
ba p. 5, 6, 12, 13, 16, 17, 20, 23, 24, 38. ^{Allegor. Sapient. p. 80. m. gr. p. 92. l. 4, 7, 11. Consil} Scala p. 80 l. 4, 7, 11. Consil
ba p. 5, 6, 12, 13, 16, 17, 20, 23, 24, 38. ^{ut qd} pro materia ad vindi-
candum.

Philal. in Riopl. Port. p. 9, 194. pro auro nostro Edw. Generosus p. 26, 27. Pro plumbo rubro seu lapide perfecto primi ordinis Riopl. p. 151. Theat. Britan. p. 112. Philal in Riopl Port p. 354.

Aegyptus humiditatis Persia siccitatis regio. Inde Aegyptus & Persia pro humido et sicco, ☿ et ♀. Bonus Ferrariensis p. 638 Anonym. in Arte Aurif. vol. 1. p. 250.

Aer vapor metallicus Nov. Lum. p. 57, 59, 63 mercurius volatilis Maier Embl. p. 2. Mercurius partium novem vel decem, Novum Lum. p. 68. 69. Elementum olei seu spiritus rubri Aristot p 275 Senior p. 74. Maier. Sept. Philos. p. 108. Hydropyro <illeg.> p. 28. Riopl. port. 6 Stanz. 13 & Alii passim. Metallum ex quo fit aer philosophicus Intr. apert. p. 5, 10, 11.

Aes (Venus, Laton) ponitur generaliter pro sulphure. Unde Rosarius minor p. 670 & Anonymus in Th. Ch. vol. 3 p. 16, & Rosar. maior p. 242 & Joannes Sawtre p 21 Omne aurum est aes sed omne aes non est aurum, quia differunt ut genus et species. Et alii: aes philosophorum est aurum eorum. Et Menabdis in Turba serm 25 in vol 5 Theat. Chem. dicit aes quod vos jussi regere sunt ista quatuor corpora & Flamellus Annot. p. 783. Venus est corpus, & rursus, Venus sunt ista quatuor corpora. Ponitur itaque pro metallis tam imperfectis quam perfectis ut pro ferro et plumbo Th. Ch. vol. 2. p 237 Aurora Consurg. p 141 pro auro vel nostro vel vulgi. ib. et Turba p 16. pro Elixire rubro tingente Th. Ch. V. 2 p. 232 & v. 3 p. 162. Scala p. 162 pro corpore quod in ☿ coquitur Turba p. 5, 6, 16 et maxime pro elemento terrae id est sale fixo seu Latona dealbanda. Turba p. 5, 6, 12, 13, 16, 17, 20, 23, 24, 38, Allegor. Sapient. p. 80. Micreris p. 92. Scala p 80 l. 4, 7, 11. Consil conjug. p. 73, 74, 75. Maier Embl. p. 37, 39. uti et pro materia ad viriditatem cocta Rosar p. 143 Clangor p. 305, 311. Turba p. 17. et pro aqua mercuariali quae de sulphure participat. Turba p. 24. aes

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The Chymistry of Isaac Newton

Index Chemicus

A B C D E F G H I J K L M N O
P Q R S T U V W X Y Z

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Aes

Aes (Venus, Laton) ponitur generaliter pro sulphure. Unde Rosarius minor p. 670 & Anonymus in Th. Ch. vol. 3 p. 16, & Rosar. maior p. 242 & Joannes Sawtre p 21 Omne *[illeg.]* aurum est aes sed omne aes non est aurum, quia differunt ut genus et species. Et alii: aes philosophorum est aurum eorum. Et Menabds in Turba serm 25 in vol 5 Theat. Chem. dicit aes quod vos jussi regere sunt ista quatuor corpora & Flamellus Annot. p. 783. Venus est corpus, & rursus, Venus sunt ista quatuor corpora. Ponitur itaque pro metallis tam imperfectis quam perfectis ut pro ferro et plumbo Th. Ch. vol. 2. p 237 Aurora Consurg. p 141 pro auro vel nostro vel vulgi. ib. et Turba p 16. pro Elixire rubro tingente Th. Ch. V. 2 p. 232 & v. 3 p. 162. Scala p. 162 pro corpore quod in ☿ coquitur Turba p. 5, 6, 16 et maxime pro elemento terrae id est sale fixo seu Latona dealbanda. Turba p. 5, 6, 12, 13, 16, 17, 20, 23, 24, 38, Allegor. Sapient. p. 80. Micreris p. 92. Scala p 80 l. 4, 7, 11. Consil conjug. p. 73, 74, 75. Maier Embl. p. 37, 39. uti et pro materia ad viriditatem cocta Rosar p. 143 Clangor p. 305, 311. Turba p. 17. et pro aqua mercuriali quae de sulphure participat. Turba p. 24. aes nigrum aes ustum i. e. Corvus, materia nigra putrefacta. Turba p. 10. aes combustum i. e. calcinatum in rubeum Consil. Conjug. p. 142. aes album, i. e. ☽



The Chymistry of Isaac Newton

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Alchemical Glossary

ALL	0-9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	...
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- **Adept:**

A highly experienced chymist, often specifically one who has successfully prepared grand arcana like the philosophers' stone.

- **Alembic:**

A distillation head comprising a dome to collect the vapors rising from a boiling substance (generally held in an attached curcubit) and a gutter and beak to channel the condensed vapors into a receiver. Used in preference to a retort for distilling volatile materials.

- **Alkahest:**

A solvent described by Van Helmont that is supposedly able to divide all substances into their component ingredients and then reduce these further into their primordial water.

- **Ambergris (or "ambergreece"):**

A fragrant secretion of the sperm whale, used in perfumes.

- **Aqua fortis:**

Literally, "strong water," an acid generally prepared in Newton's day by distilling saltpeter with oil of vitriol or with vitriol itself. The aqua fortis of commerce was composed primarily of nitric acid.

- **Aqua regia:**

Literally, "royal water," an acid capable of dissolving gold, usually prepared in the early modern period by dissolving sal ammoniac in aqua fortis, and today by mixing a three-to-one ratio of hydrochloric acid and nitric acid.

- **Aqua vitae:**

Literally, "water of life"; generally distilled alcohol.

- **Arcanum, arcana:**

The "Oyl of Vitriol"

Don b. 15 pp.4r & 7r:

"Oyle of Vitrioll is acid destild from vitrioll first calcined to whitenesse for feare of boyling over when it .
The fumes are white but sattle into this reddish liquor."

Newton has another description of the process in the same manuscript on p.8v:

"Spt of Vitrioll & Oyle. Deflegm ye vitrioll &c a <illeg> yt circulatory fire till after melting it coagulate into a grayish lump wch is done in 2 howers. A glass retort half filld with this poudered, & urged into a large receiver till black veines begin to trickle downe. Then change ye receiver but lute it not on. A pound yeilds 9 or 10 ℥s of transparent spirit, 1 1/2 ℥ of black oyle, & ye remaining colcothar (caput mortuum) contains a fixed salt of ♀. The spt & oyle differ but in their flegm: ffor a drachm of spt dropt into common water ℥i, & filtered makes ye spt."

The English chymist and physician John French (1616-1657) described a similar method for the production of oil of vitriol, and he also included a picture of the apparatus used for distilling various mineral acids.

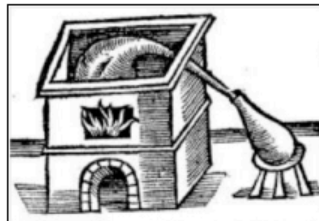


Fig. 1: French's furnace and distillation apparatus. *The Art of Distillation* (London, 1653), p.64.

French describes the process as follows:

"Take of Hungarian, or the best English Vitriol, as much as you please, let it be melted in an earthen vessell glazed, with a soft fire, that all the moisture may exhale, continually stirring of it, untill it be brought into a yellow powder, which must be put into a glasse Retort well luted, or an earthen Retort that will endure the fire: Fit a large Receiver to the Retort and close the joints wel together; then give it fire by degrees till the second day, then make the strongest heat you can til the Receiver which before was dark with fumes be clear again; let the Liquor that is distilled off be put into a little Retort, and the flegm be drawn off in sand, so will the oil be rectified, which is most strong and ponderous, and must be









Latent Semantic Analysis (LSA)

Text Analysis by Linear Algebra
and Singular Value
Decomposition (SVD)

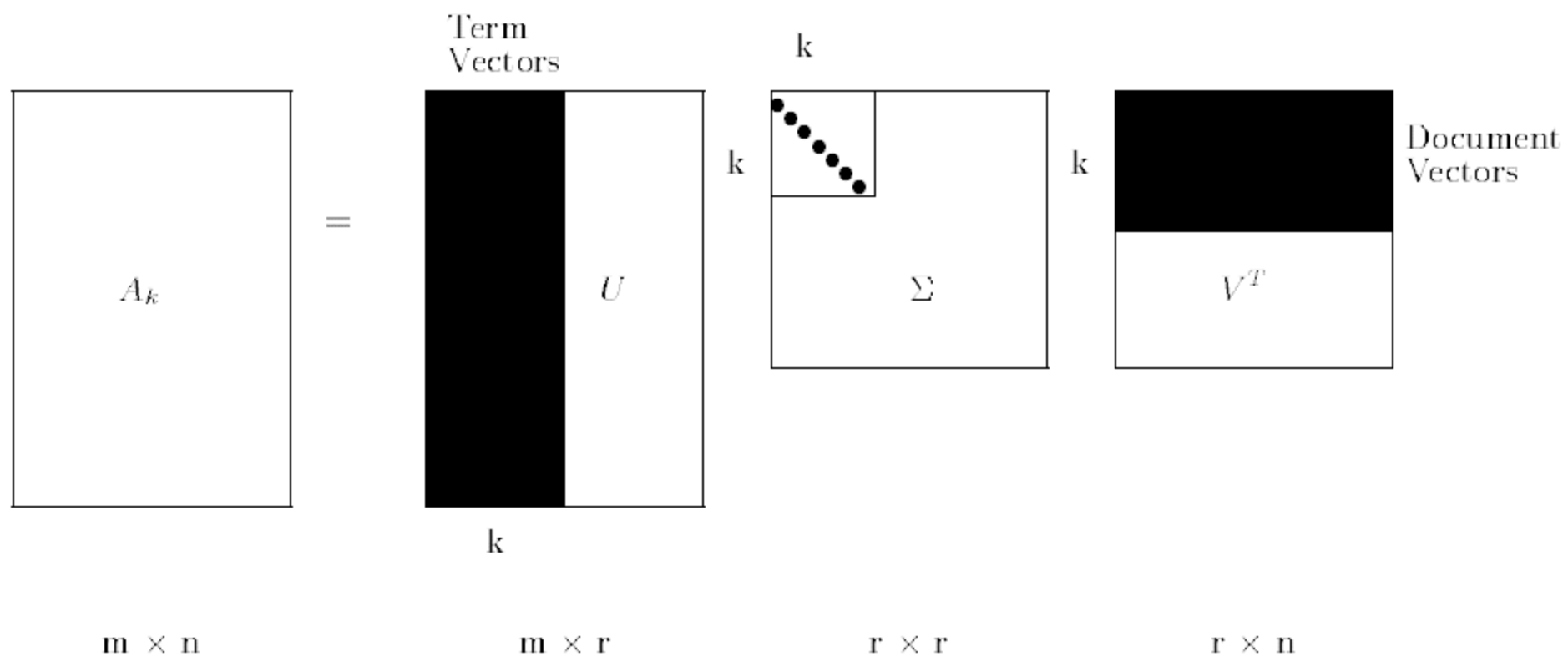
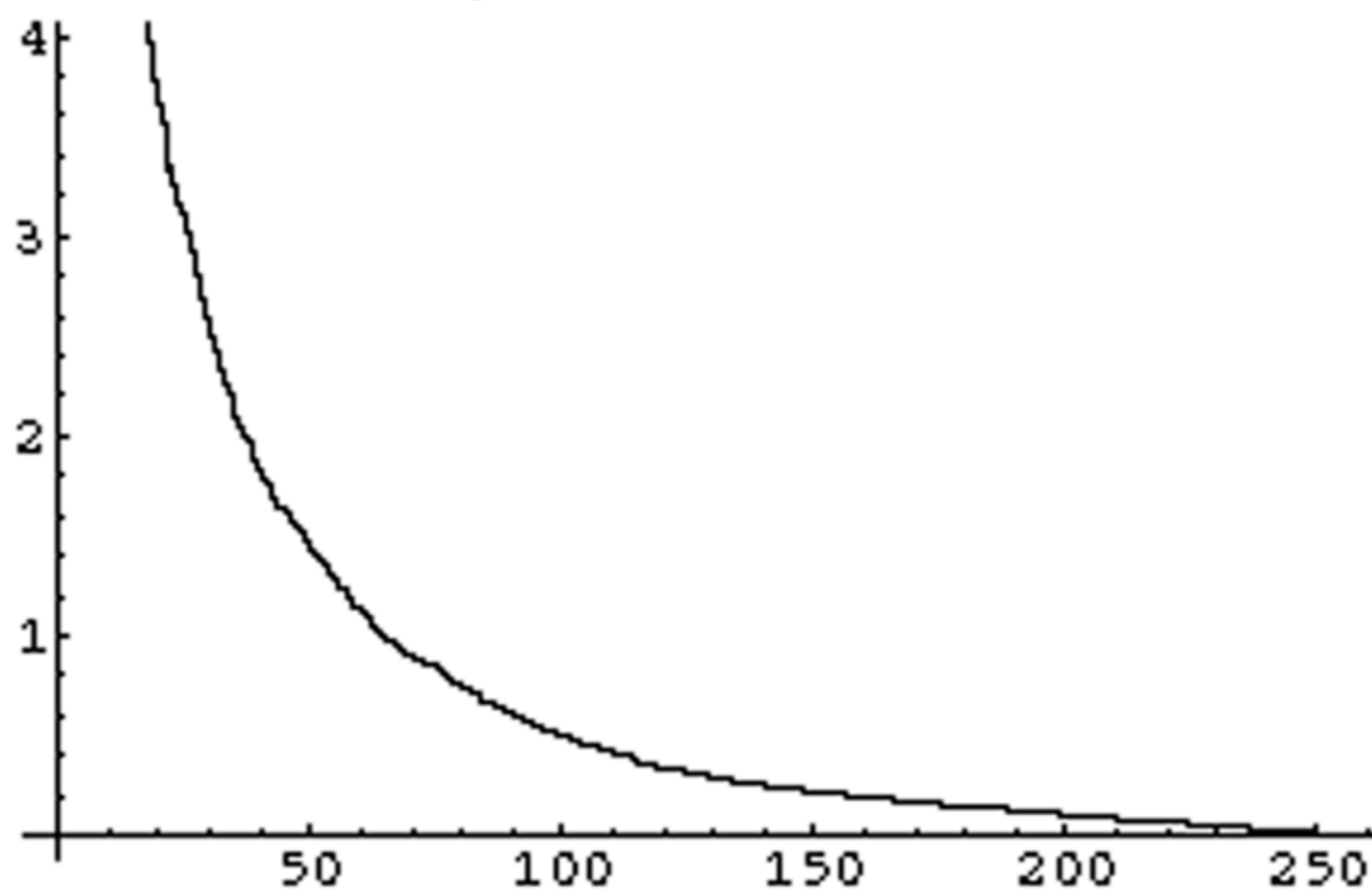


FIG. 1. *Mathematical representation of the matrix A_k .*

Singular Values of M



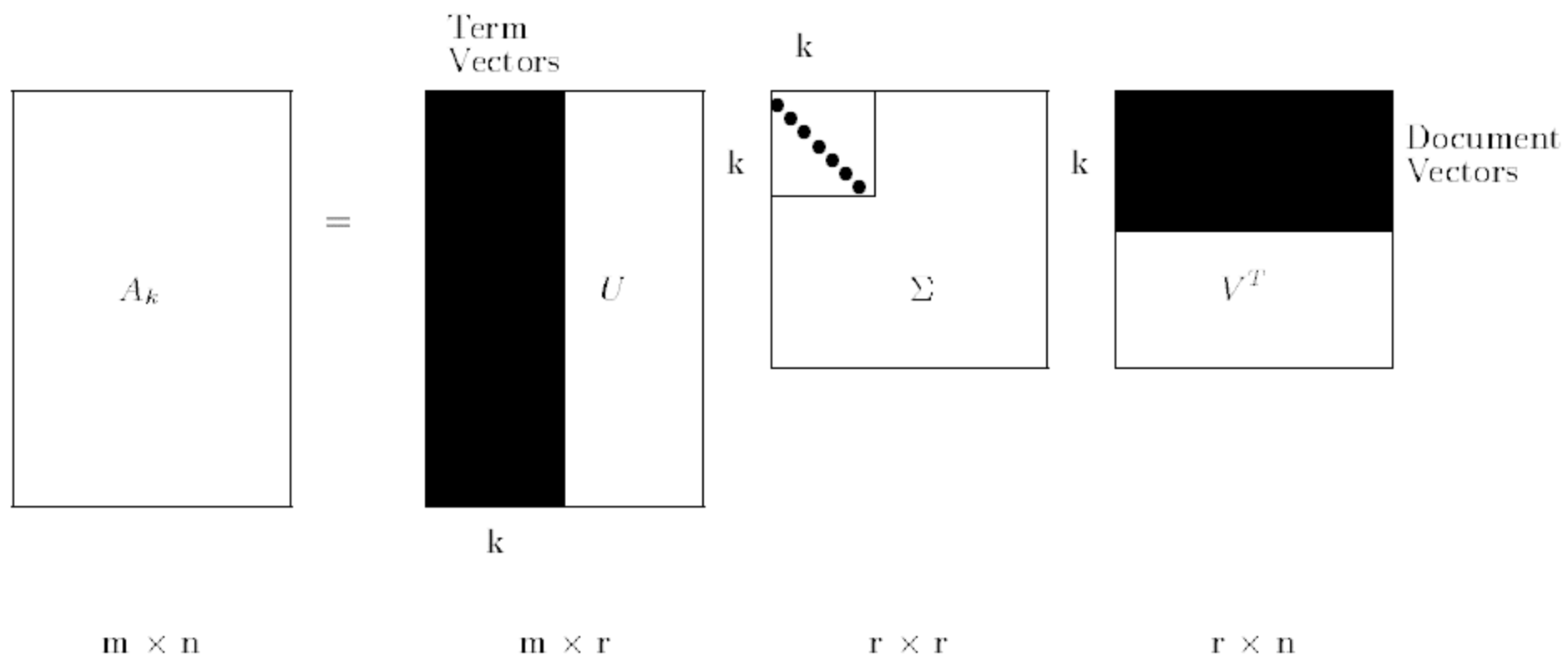
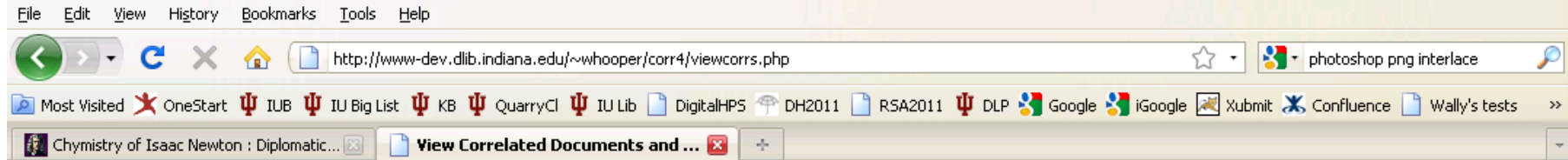


FIG. 1. *Mathematical representation of the matrix A_k .*



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Note: To see the alchemical symbols correctly, install the Gentium Newton TTF font (GenR102-Newton-ansi.ttf) on your machine.

[Download font zip file here](#). Font works on Windows, Macintosh and Linux.

To view and modify network graphML files, download and install [Newtwork Workbench](#) (NWB).

Chymistry of Isaac Newton Latent Semantic Analysis Tools

View document and term correlations

Search type:

- ☒ Document-document correlations.
- ☐ Chunk-chunk correlations.
- ☐ Term-term correlations.
- ☐ Term-chunk (Doc) correlations.
- ☐ Chunk (Doc)-term correlations.
- ☐ Compose a query using terms.
- ☐ Compose a query using chunks.

Chunk size:

- ☒ Use 250-word chunks.
- ☐ Use 1000-word chunks.

Output type:

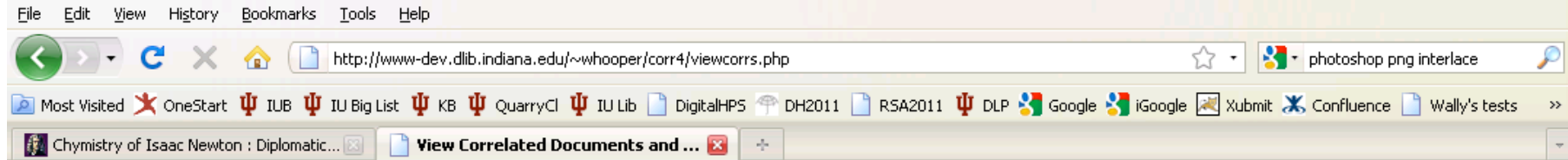
- ☒ List results in descending order.
- ☐ List results for one document in page order.
- ☐ List results by term alphabetically.
- ☐ List results in document catalog order.
- ☐ Networked graph of correlations for NWB.
- ☐ CSV for Excel XY of Term \leftrightarrow Doc correlations.

Scope of correlated pairs to return:

- ☒ Return all correlations above the selected correlation value.
- ☐ Return only correlations between selected documents or terms.
- ☐ Return correlations within one document. (Doc-Doc only.)
- ☐ Return all and report the presence of terms. (Term \leftrightarrow Doc only.)
- ☐ Return and report only if terms are present. (Term \leftrightarrow Doc only.)

Set up search

[Open a new LSA viewer window.](#)



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Set up search

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Documents:

All documents



Choose one or more or ALL.

Add document to query set

Query set:

Clear query set

Run Search

Lowest document-document correlation value to inspect:

0.9



File Edit View History Bookmarks Tools Help

http://www-dev.dlib.indiana.edu/~whooper/corr4/viewcorrs.php

Most Visited OneStart IUB IU Big List KB QuarryCI IU Lib DigitalHPS DH2011 RSA2011 DLP Google iGoogle Xubmit Confluence Wally's tests

Chymistry of Isaac Newton : Diplomatic... View Correlated Documents and ...

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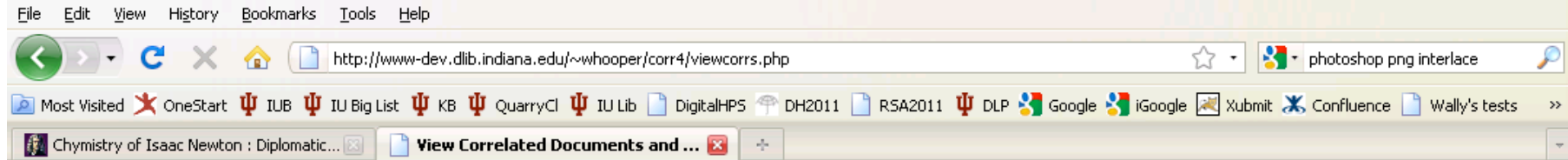
<div>All documents Keynes MS. 12 Keynes MS. 13 Keynes MS. 14 Keynes MS. 15 Keynes MS. 16 Keynes MS. 17 Keynes MS. 18 Keynes MS. 19 Keynes MS. 20 Keynes MS. 21 Keynes MS. 22 Keynes MS. 23 Keynes MS. 24 Keynes MS. 25 Keynes MS. 26 Keynes MS. 27 Keynes MS. 28 Keynes MS. 29 Keynes MS. 31 Keynes MS. 16</div>	<div>Output type: ts in descending order. ts for one document in page order. ts by term alphabetically. ts in document catalog order. ted graph of correlations for NWB. Excel XY of Term↔Doc correlations.</div> <div>Open a new LSA viewer window.</div>	<div>Scope of correlated pairs to return: <input checked="" type="radio"/> Return all correlations above the selected correlation value. <input type="radio"/> Return only correlations between selected documents or terms. <input type="radio"/> Return correlations within one document. (Doc-Doc only.) <input type="radio"/> Return all and report the presence of terms. (Term↔Doc only.) <input type="radio"/> Return and report only if terms are present. (Term↔Doc only.)</div>
Choose one or more or ALL. <input type="button" value="Add document to query set"/>		

Query set:

Keynes MS. 16

Lowest document-document correlation value to inspect:

0.9



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Set up search

[Open a new LSA viewer window.](#)

Documents:

Keynes MS. 21



Choose one or more or ALL.

Add document to query set

Query set:

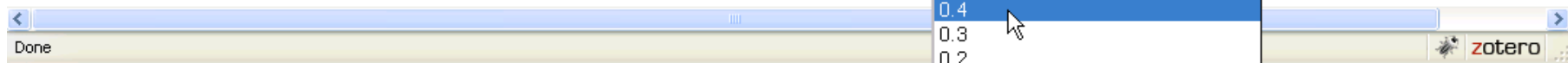
Keynes MS. 16
Keynes MS. 21

Clear query set

Run Search

Lowest document-document correlation value to inspect:

- 0.9
- 0.8
- 0.7
- 0.6
- 0.5
- 0.4
- 0.3
- 0.2



Documents:

Keynes MS. 21

Choose one or more or ALL.

Add document to query set

Query set:

Keynes MS. 16
Keynes MS. 21

Lowest document-document correlation value to inspect:

0.4

0.962510	Keynes MS. 21, f008v	Yahuda MSS. Var. 259 MS. 4, f4.3v_2
0.943946	Keynes MS. 21, f012v	Keynes MS. 34, f002r_2
0.937308	Keynes MS. 21, f012r	Keynes MS. 34, f002r_2
0.936803	Keynes MS. 21, f010r_2	Keynes MS. 55, f019v
0.936629	Keynes MS. 21, f012v	Keynes MS. 51, f003v
0.932446	Keynes MS. 21, f012r	Stanford M132/2/6, f001v
0.929817	Keynes MS. 21, f009r	Yahuda MSS. Var. 259 MS. 4, f4.4r
0.919286	Keynes MS. 21, f012r	Keynes MS. 51, f003v_3
0.918690	Keynes MS. 21, f014v_2	Keynes MS. 61, f002v
0.916556	Keynes MS. 21, f012r	Keynes MS. 51, f003v
0.913219	Keynes MS. 19, f002v_3	Keynes MS. 21, f009r

<http://webapp-test.dlib.indiana.edu/newton-dev/mss/dipl/ALCH00015/#f1r> (new window)

DOC-ID: ALCH00015

COLL-MS: Keynes MS. 26, f.001r

MS-TITLE: On Munday March 2d or Tuesday March 3 1695/6, A

Londoner acquainted wth Mr Boyle

FOLIO[[1r]]FOLIO On Munday March 2d or Tuesday March 3 1695/6 , Londoner acquainted with Mr. Boyle & Dr Dickinson making me a visit, affirmed that in the work of Jodichus a Rhe with ~~it~~ was not necessary that the ~~it~~ should be purified but the oyle or spirit might be taken as sold in shops without so much as rectifying it. That the fire does not destroy the life of the Oyle or Spirit in distilling it from the ADD[[red hot]]ADD Vitriol. That two or three pounds of Oyle or Spirit will not afford above half an ounce of DEL[[sp]]DEL fixt salt & that the oyle affords more fixt salt then the spirit. That the white spirit is in appearance like rain water only sweet & fragrant, & that Dr Twisdens spirit as Iodichus described it to him was genuine. That the white spirit must be rectified seven times from its faex without separating any flegm from it, & that in rectifying, it will endure any heat without losing its life. That the remaining matter for extracting the soul must ADD[[not]]ADD be calcined to a red heat, but only well dried, least the soul fly away. That for extracting the soul the spirit must be digested on this matter not two months but only till it appear well coloured with the extracted soul. That when you draw off the spirit from the soul you must leave the soul not thick DEL[[but]]DEL like honey or butter but thinner then oyle so that you may pour it clean out of your glass like a liquor & that it will keep better in moisture then when too dry & therefore tis safest to err on that hand

<http://webapp-test.dlib.indiana.edu/newton-dev/mss/dipl/ALCH00114/#f1r> (new window)

DOC-ID: ALCH00114

COLL-MS: Schaffner Series IV Box 3 Folder 10, f.001r

MS-TITLE: 1. A Londoner acquainted wth Mr Boyle & Dr Dickinson

FOLIO[[1r]]FOLIO

1. Londoner acquainted with Mr Boyle & Dr Dickinson, affirmed that in the work with ~~it~~ was not necessary that the ~~it~~ should be purified, but the Oyle or Spirit might be taken as sold in shops ADD[[without so much as rectifying it]]ADD. That two or thre pound will not afford above 1/2 an ounce of salt & that the Oyle holds more salt then the spirit. ADD[[3a]]ADD That the white spirit DEL[[was]]DEL is in appearance like rain water, only sweet & fragrant & that DEL[[the]]DEL Dr Twisden 's spirit as described it to him was genuine. ADD[[3c]]ADD That the white spirit must be rectified 7 times from its faex with out separating any flegm from it. That the remaining matter for extracting the soul DEL[[d]]DEL must not be calcined to a red heat but only well dried least the soul fly away. That the spirit must be digested DEL[[(not 40 days)]]DEL on this matter (not DEL[[40 days)]]DEL two months but only) till it appear well coloured with the extracted soul. ADD[[5]]ADD That DEL[[the]]DEL when all the soul is extracted the remaining matter must be put in a crucible DEL[[under a]]DEL covered with a muffle or hollow cap of iron like DEL[[the]]DEL a bowl inverted & a fire made ADD[[round]]ADD about them for an hour, which cannot easily be to hot. Then the salt extracted with the spirit of the matter calcined again & extracted again as before DEL[[till no ADD[[more]]ADD salt]]DEL & so on till no more salt can be extracted. ADD[[4]]ADD That when you draw off the spirit from the

<http://webapp-test.dlib.indiana.edu/newton-dev/mss/dipl/ALCH00079/#f2r>
(new window)

DOC-ID: ALCH00079

COLL-MS: Dibner MS. 1024 B SCDIRB, f.002r

MS-TITLE: Ex Fabri Hydrographo Spagyrico.

// Hæc ambo conjunguntur et ex conjunctione masculi huius & puellæ virginis nascitur semen seu fons noster. Ibi tunc temporis in matrimonio celebrando pondus est considerandum. Ex qualicunque enim pondere non oritur semen seu fons prolificus sed ex certo ac determinato pondere. Itaque par pondus utriusque materiæ in nostro primo matrimonio celebrando est adhibendum. In secundo autem matrimonio dum pars volatilis parti fixæ & permanenti conjungitur pondus etiam est perpendendum. Nam pars fixa necesse est ut dissolvatur ac diluatur et aqua fiat a parte volatili. Ideo major esse debet in quantitate pars volatilis quam ipsa pars fixa. Aliqui chemicorum ponunt decem partes aquæ super unam corporis fixi alii quatuor. Modò pars fixa dissolvatur a parte volatili hoc ego existimo verè sufficere. Nam deinde per coctionem perennem & continuam coagulatur pars DEL[[fixa]]DEL ADD[[volatilis]]ADD a parte DEL[[volatili]]DEL fixa. Si sit maxima quantitas partis volatilis retardatur coagulatio unde his qui causam nesciunt contingit desperatio. Ego tamen non observavi pondus sed materias conjunxi et maxima quantitate partis volatilis partem fixam dissolvi & deinde in balneo Mariæ aut levissimo cinerum calore superfluam volatilis materiæ partem extraxi donec tenacem vidi materiam viscosam et valde nigram. Tunc vas repagulo satus firmo obsignavi et tempori ad coquendum tradidi, benedixitque Deus & incrementum dedit. Est etiam pondus observandum in multiplicatione. Nam opus album et rubrum perpotandum est et irrigandum suo spiritu seu fonte nostro crudo, sed puro et septies destillato. Ibi pondus est observandum ne Elixir submergatur. Parcè admodum irrigandum ut materia cooperiatur tantùm gladii spissitudine : quod multoties est

<http://webapp-test.dlib.indiana.edu/newton-dev/mss/dipl/ALCH00117/#f3r>
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DOC-ID: ALCH00117

COLL-MS: Royal Society MM/6/5, f.003r_2

MS-TITLE: Extracts from 'Faber' (Pierre Jean Fabré) and other alchemical writers

eorum substantijs. Poculum // ergo istud aqua est quæ in intimis eorum substantijs latitat. Hæc sola aqua fratrem nostrum et sororem nostram copulat et jungit ut ambo juncti progignant foetum nostrum Adonidem & Ganimedem qui enutriendus est ut ad perfectam ætatem deveniat. Faber Panchym p 674, 675

Par pondus utriusque materiæ in nostro primo matrimonio celebrando est adhibendum. In secundo autem matrimonio dum pars volatilis parti fixæ & permanenti conjungitur pondus etiam est perpendendum. Nam pars fixa necesse est ut dissolvatur ac diluatur et aqua fiat a parte volatili. Ideo major esse debet in quantitate pars volatilis quam ipsa pars fixa. Aliqui chemicorum ponunt decem partes aquæ super unam corporis fixi alij septem alij quatuor. Modo pars fixa dissolvatur a parte volatili hoc ego existimo verè sufficere. Nam deinde per coctionem perennem & continuam coagulatur pars volatilis a parte fixa. Si sit maxima quantitas partis volatilis retardatur coagulatio, unde his qui causam nesciunt contingit desperatio. Ego tamen non observavi pondus sed materias conjunxi et maxima quantitate partis volatilis partem fixam dissolvi & deinde in balneo Mariæ aut levissimo cinerum calore superfluam volatilis materiæ partem extraxi donec tenacem vidi materiam viscosam & valde nigram. Tunc vas repagulo satis firmo obsignavi & tempori ad coquendum tradidi, benedixitque Deus & incrementum dedit. Est etiam pondus observandum in multiplicatione. Nam opus album & rubrum perpotandum est et irrigandum suo spiritu seu fonte nostro crudo, sed puro & septies destillato. Ibi pondus

<http://webapp-test.dlib.indiana.edu/newton-dev/mss/dipl/ALCH00025/#f2r>
(new window)

DOC-ID: ALCH00025

COLL-MS: Keynes MS. 36, f.002r_2

MS-TITLE: De Metallorum Metamorphosi

// autem hoc est **semen** Auri. Neutiquam verò existimare licet 4em 4is habere
semen, 5um 5i, & sic de caeteris DEL[[sed]]DEL (forma puta 4ali 5nina 5tiali
, Haec est accidentalis

at materia (pura) est aurea cui nihil deest praeter digestionem. In cunctis ergo
metallis

imperfectis est **semen** aureum ad perfectionem tendens at in itinere suo per
accidens

impeditum; inque auro digesto est idem **semen** proximè inclusum in perfectione
triumphans

Quare si quaeratur **semen** ex imperfectis metallis educere, (remotum longe cum
sit licet

verè existens) labor futurus erit frustraneus: Ad solem puta cuncta exaltari
necessum

est, aliter **semen** (quod est **rei** perfectio) ex illis non DEL[[elicitur]]DEL
excernitur. **Semen** volo

non 5um qui est in omnibus & ex illis educendus est ad vim illam in qua et per
quam multiplicantur. 5 autem non in 5o at in Oro solo est multiplicabilis, cum
nimirum ad aurum pervenerit ut de se postea **semen** suum i.e. virtutem
digestissimam

emittat ut ex hac **multiplicatio** ortum suum habeat. Lunae tamen (quia perfecta
est et Elixir albae projectioni inserviens exhibet) **semen** suum inesse quispiam
facile

crederet. Et datur quidem **semen** multiplicativum album pariter ac rubeum, hoc
tamen

album in renibus DEL[[**solis**]]DEL tantum ADD[[**solis**]]ADD continetur. Mater
lapidis primo solem albedine sua dealbat

unde proles quae ex hisce duobus parentibus consurgit albescit primò ad
imitationem formae

maternae & tum perfectum est **semen** multiplicativum ad album postea rubescit
rubedine

conspicua

<http://webapp-test.dlib.indiana.edu/newton-dev/mss/dipl/ALCH00063/#f4.1v>
(new window)

DOC-ID: ALCH00063.04

COLL-MS: Yahuda MSS. Var. 259 MS. 4, f.4.1v

MS-TITLE: Novum Lumen Chymicum . Sendivogij. Divi Leschi genus amo .

usus nisi resolvatur calido vapore. //

Semen est triplex Animale quod ex imaginatione cognoscitur.

Vegitabile vulgare est ut videmus in fructibus; Quod nobis ostendit quomodo
natura creat illud ex 4 Elementis. Nam Hyems putrefacit congelando spiritus
vitales in Arboribus quos cum calor **Solis** (humiditatis attractivus) resolvit,
tum calor

naturae per motum excitatus pellit ad circum ferentiam vaporem aquae
subtilem

qui poros arboris apperiendo, & guttas stillare facit, semper purum ab impuro
seperando impurum abit in **folio** & corticem purum in flores & fructum
congelantur; Veluti pomum in quo sperma est ex quo nascitur arbor, sed in
spermate est **semen** vel granum intrinsece ex quo etiam nascitur argor natu
multiplicatio non est in spermate sed in semine.

Tertio Minerale **Semen** quod non creditur quia invisibile nec mirum cum quod
prae oculis est non percipiens ignari. Tamen quod superius est est sicut id quod
inferius

est & quod inferius (generatur ex semine) sicut id quod superius est. Nihil
nascitur &
crescit sine semine sed mortuum est. Metalla sic generantur: Elementa 4
stillant

per Archeum Naturae vaporem aquae ponderosum in centrum Terrae qui est
semen

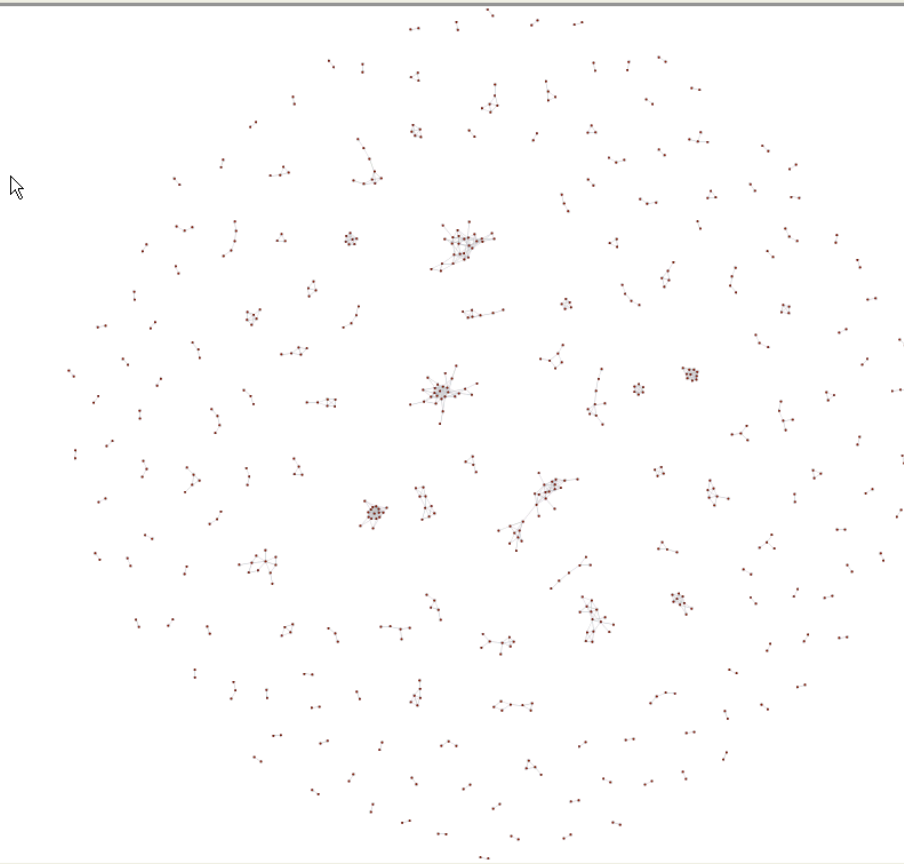
metallum & dicitur mercurius propter suam fluiditatem & usum quia quaeque

0.898798	Keynes MS. 38, f.010v	Ransom HRC 129, f.003v
0.898677	Keynes MS. 48, f.038r_2	Keynes MS. 48, f.050r
0.898675	Babson MS. 419, f.001r_2	Babson MS. 419, f.001v
0.898636	Yale Cushing/Whitney Yale Ms., f.008v	Yale Cushing/Whitney Yale Ms., f.010r_2
0.898563	Keynes MS. 13, f.001r	Keynes MS. 13, f.003v
0.898398	Portsmouth Add. MS. 3975, f.065v	Portsmouth Add. MS. 3975, f.066v
0.898354	Yahuda MSS. Var. 259 MS. 3, f.3.1v_2	MIT Archives QD25.F613 1670z, f.012v
0.898136	Keynes MS. 36, f.001r_2	Yahuda MSS. Var. 259 MS. 8, f.8.2r
0.898098	Countway B MS c 41 a), f.006r	Countway B MS c 41 a), f.006v_2
0.898082	Babson MS. 417, f.024v_2	Babson MS. 417, f.026v
0.897927	Keynes MS. 26, f.001r	Schaffner Series IV Box 3 Folder 10, f.001r
0.897895	Dibner MS. 1070 A SCDIRB, f.014v_2	Royal Society MM/6/5, f.006r_2
0.897882	Yahuda MSS. Var. 259 MS. 4, f.4.2r	Yahuda MSS. Var. 259 MS. 4, f.4.2v
0.897828	Keynes MS. 30/1, f.016r	Keynes MS. 30/1, f.049v
0.897825	Babson MS. 417, f.028v	Babson MS. 417, f.032r
0.897777	Keynes MS. 21, f.010r_2	Yahuda MSS. Var. 259 MS. 4, f.4.2v



Yahuda MS. 259, f.10.4r_3-Yahuda ...

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labelvisible	false
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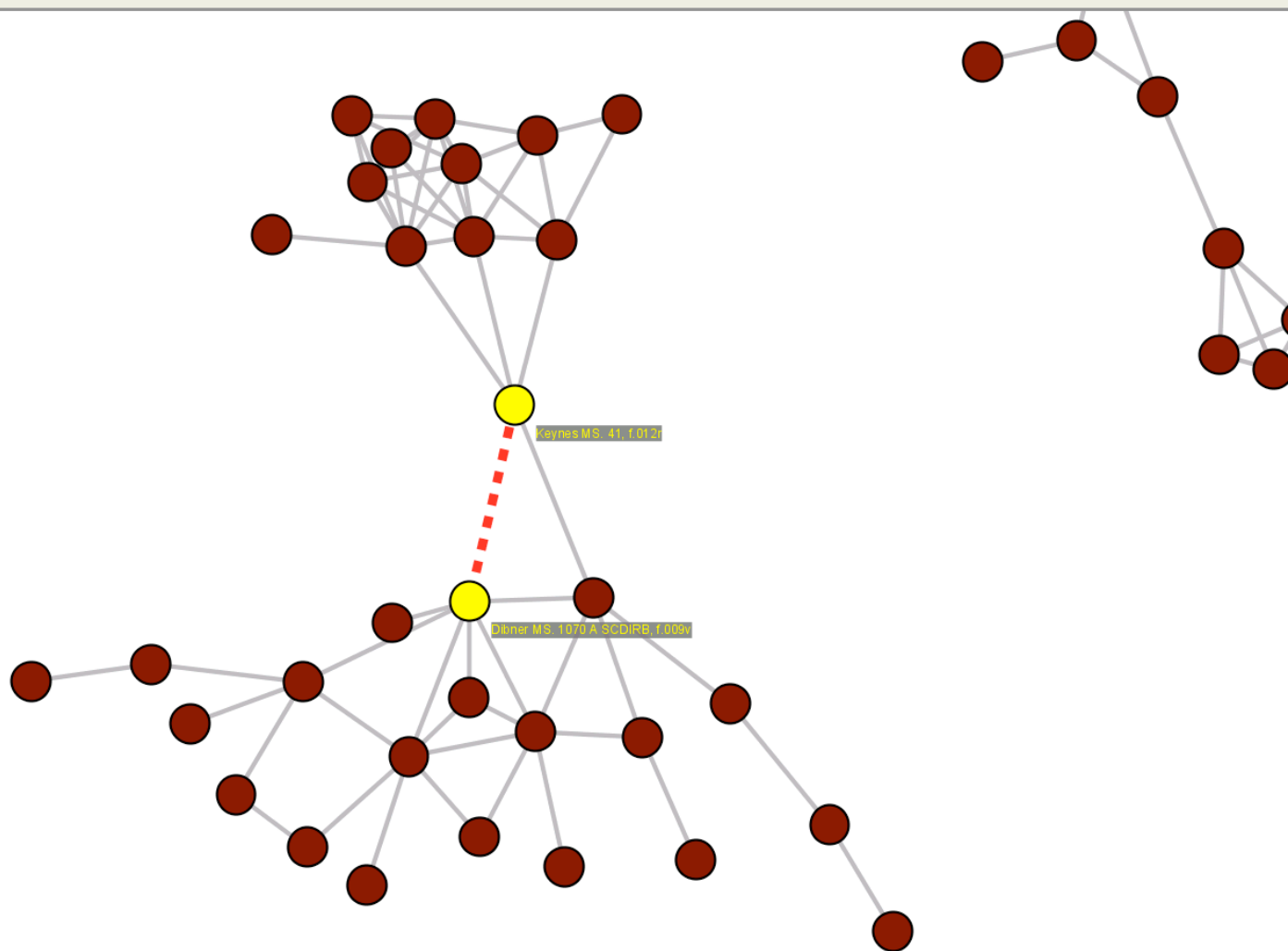
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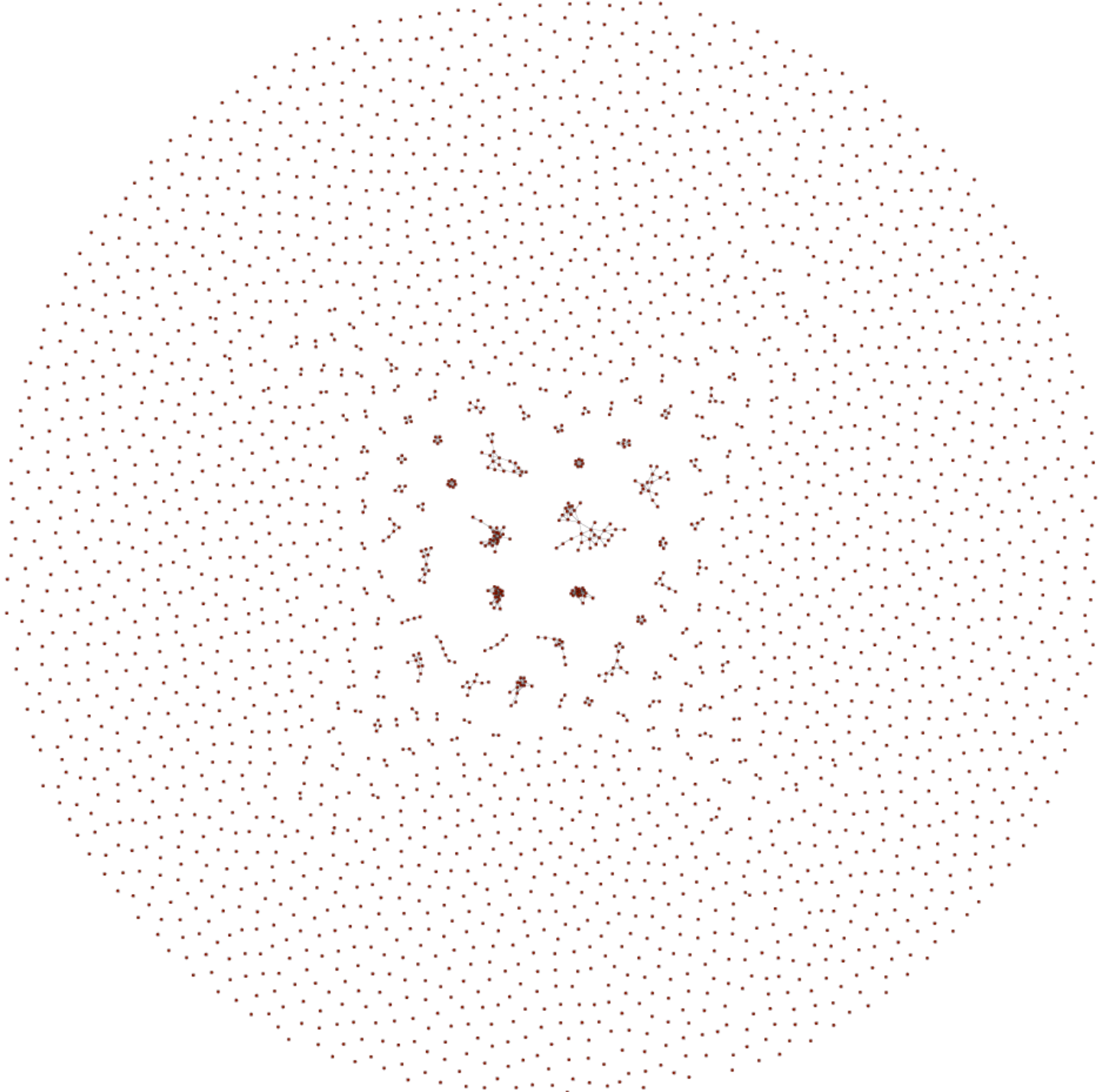
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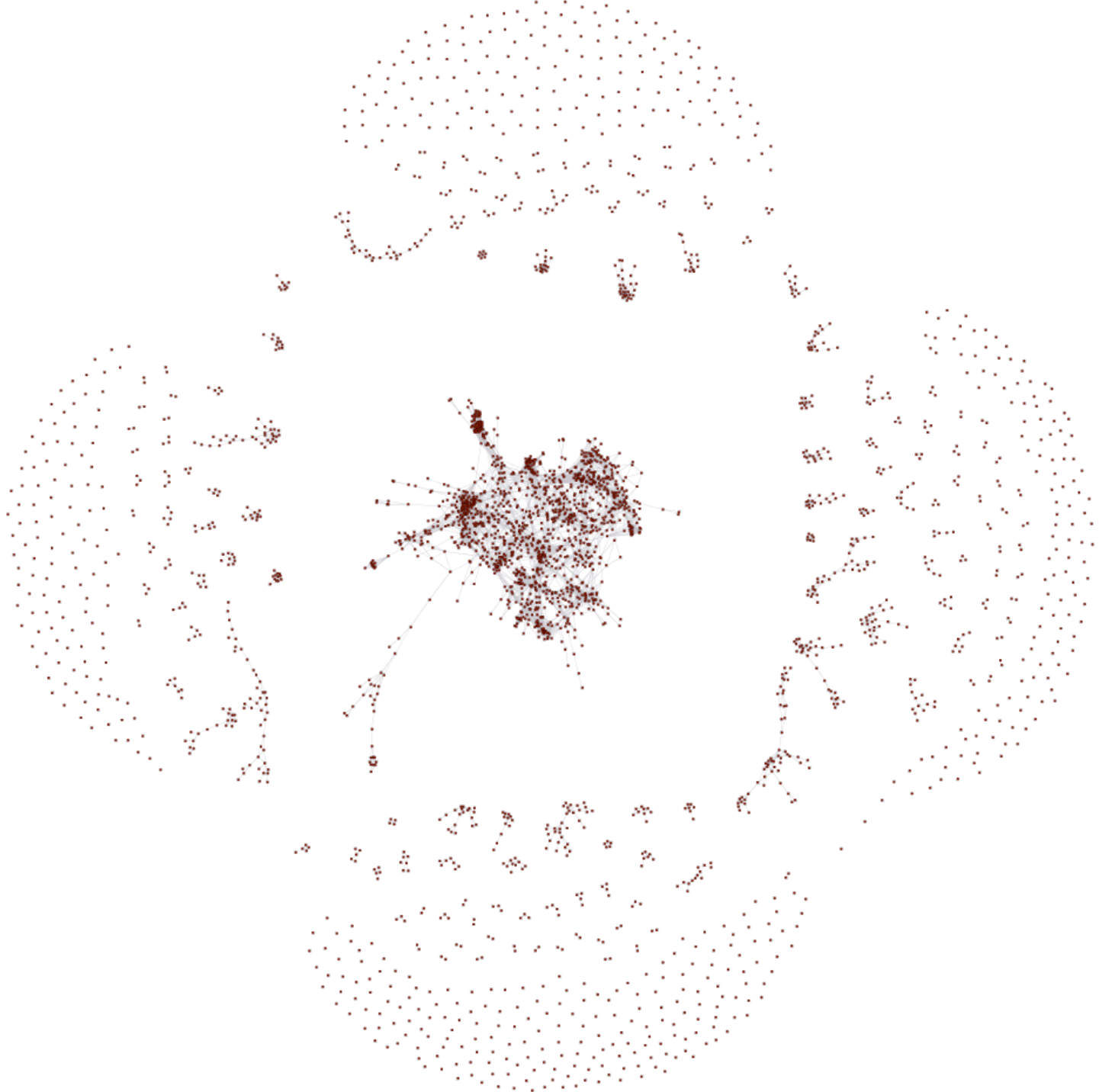
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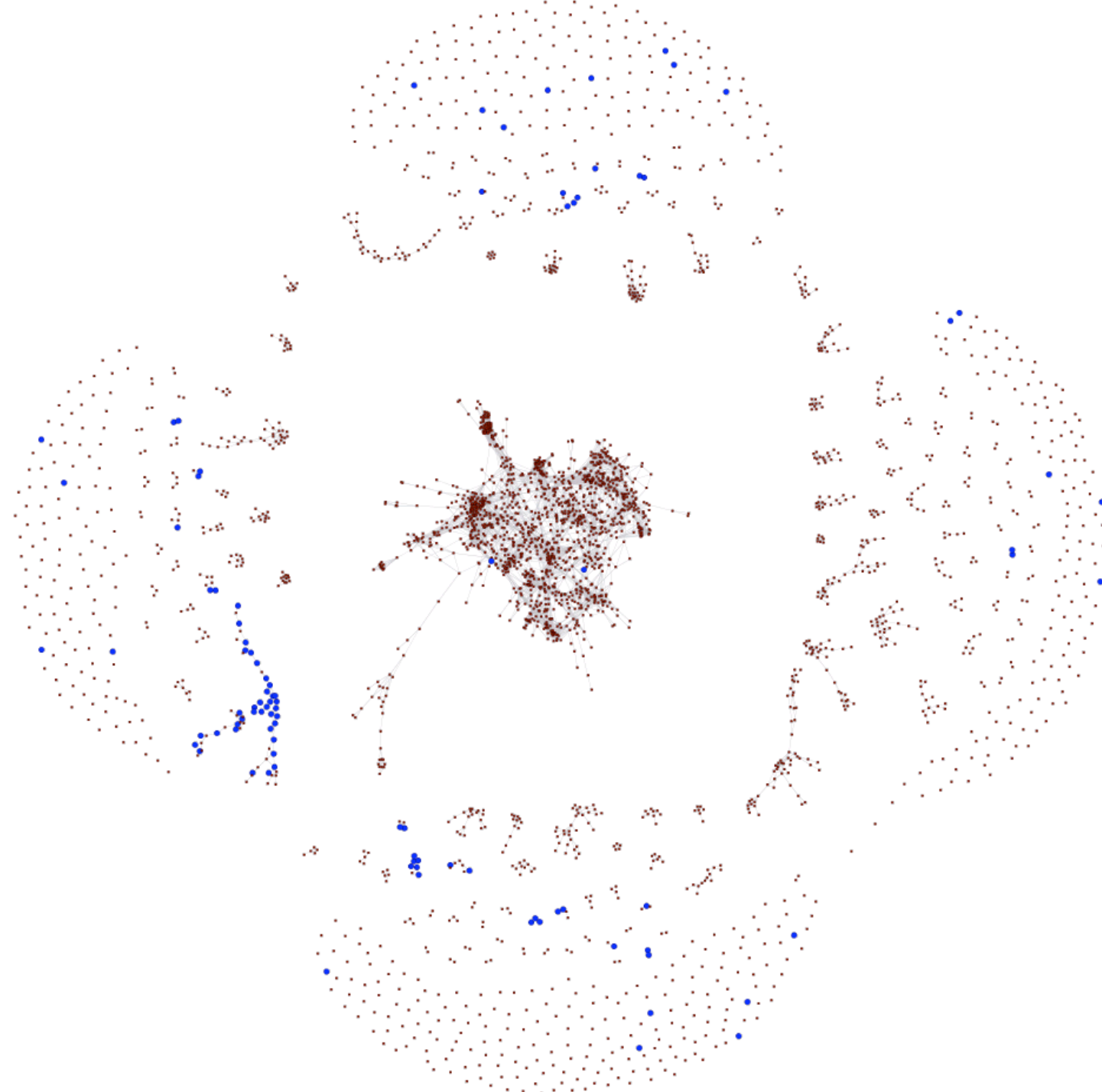
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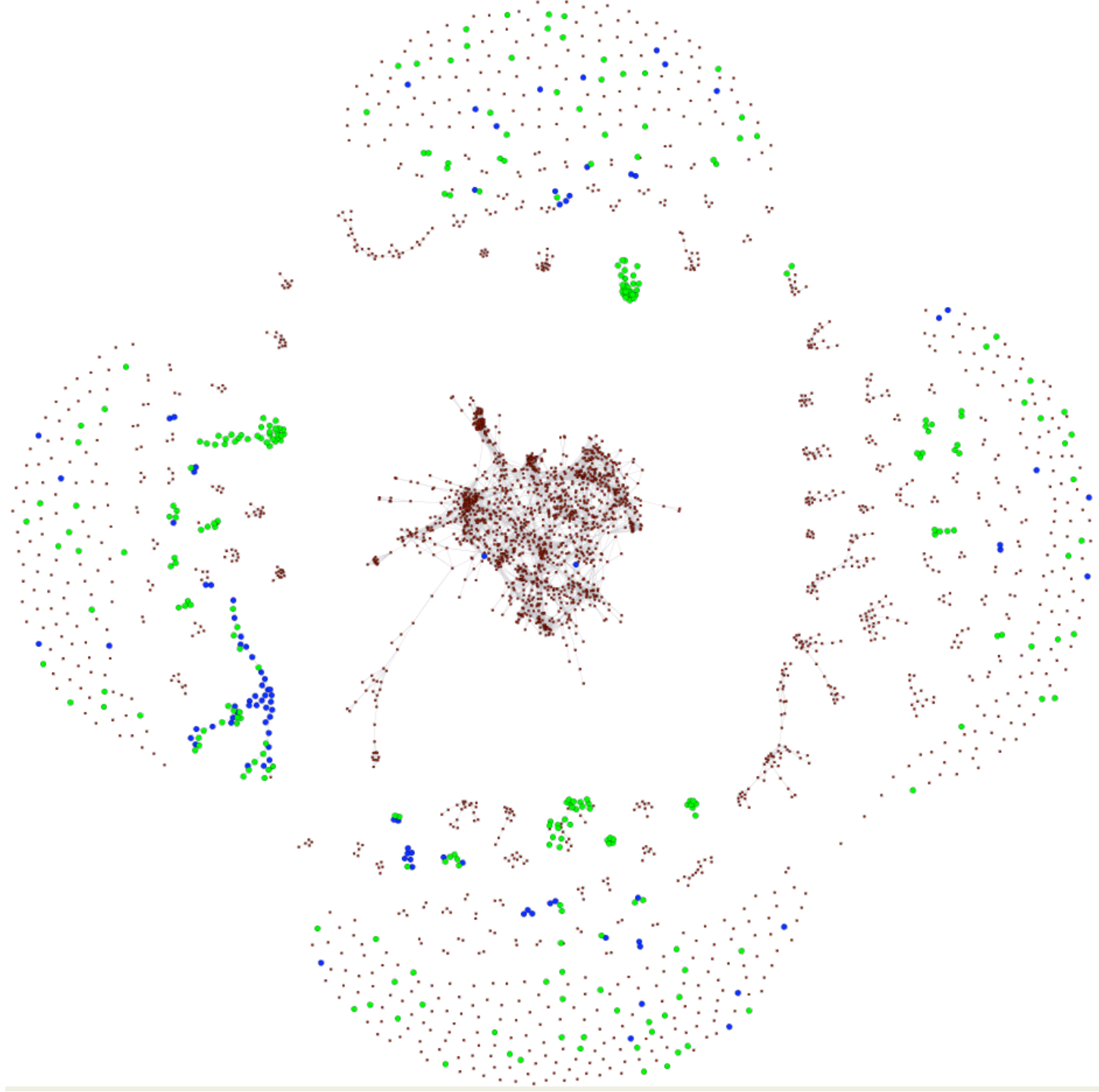
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node2	n364
originallabel	
visible	true
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width	4.0

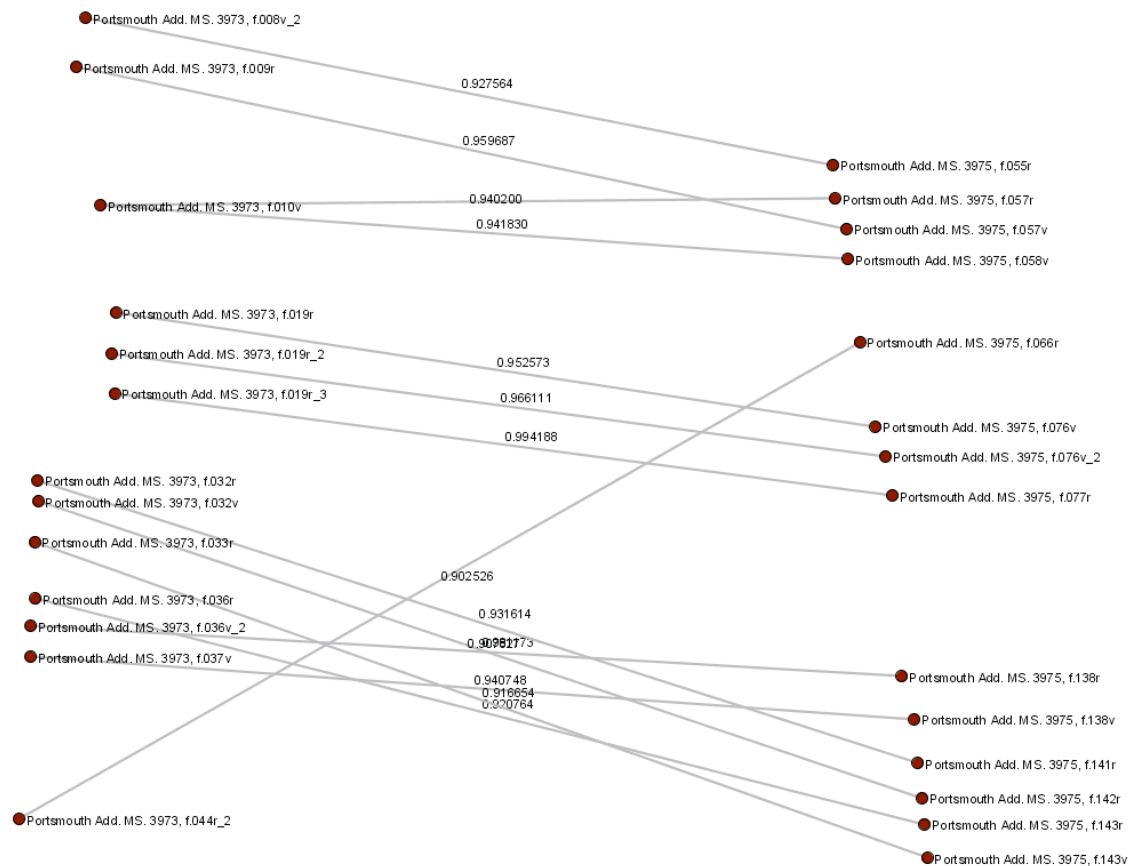












COLL-MS: Portsmouth Add. MS. 3975, f.142r
MS-TITLE: Idea Of a table booke

any fluid spirit of ☿. The salt of the first sublimed in a dry form like * & weighed 18gr & the feces 6gr. This salt was a little fusible & but a little. The salt of the second sublimed in a crystalline form with out any dry flowers. First there ascended a little salt mixt with flegm which stood in the neck of the retort like fluid dew, but after a while dried. Then sublimed a heavy fusible white salt something more fusible then ☿ which stood fluid in the neck of the Retort till the glass was taken of the fire & then soon congealed. This cristalline fusible sublimed salt weighed 22 1/2 grains. & the feces which remained below weighed 7gr. So then in this last Experiment the ▽, A, ☿, *, volatil salt & feces were as 480, 360, 240, 120, 22 1/2, 7 or as DEL[[192]]
DEL 64, 48, 32, 16, 3, 1. This last fusible salt ran totally per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr sublimed from Lead ore 12gr, the ore was not thereby increased in weight nor made fusible, no not upon a red hot iron, nor let go any salt in boiling water. Of the FOLIO[[142v]]
FOLIO same fusible salt 4gr sublimed over a candle from the calx of the sublimed Net 3gr rose heavily & in the bottom after the first sublimation remained about 5gr which being ground & sublimed again came to 4gr & after another sublimation to between

COLL-MS: Portsmouth Add. MS. 3973, f.032v
MS-TITLE: Experiments

washings poured into the retorts & distilled, there came over first insipid flegm, then a little acid spirit of VR, the salts sublimed with out any fluid spirit of ☿. The salt of the first sublimed in a dry form like * & weighed 18gr, & the feces 6gr. This salt was a little fusible & but a little. The second sublimed ADD[[in a crystalline form]]
A with out any dry flowers first there ascended a little salt mixt with flegm which stood in the neck the retort like fluid dew. But FOLIO[[33r]]
FOLIO after a while dried. Then sublimed a heavy fusible ADD[[white]]
ADD salt something more fusible then ☿ which stood fluid in the neck of the retort till the glass was taken off the fire & then soon congealed. This ADD[[crystalline]]
ADD fusible sublimed salt weighed 22 1/2gr. And the feces which remained below weighed 7gr. So then in DEL[[this last experi]]
DEL this last experiment the ▽, VR, ☿, *, volatil salt & feces were as 480. 360. 240. 120. 22 1/2. 7 or as 192. 144. 96. 48. 9. 3. or as. 64. 48. 32. 16. 3. 1. This last fusible salt ran totally DEL[[☿ 2 ounces 2/3 1 ounce gave a regulus scarce distinguis]]
DEL per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr being sublimed from Lead ore 12gr the oare was not thereby ADD[[increased in weight nor]]
ADD made fusible not upon a red hot iron DEL[[&]]
DEL nor let go any salt in boiling water. Of the same fusible salt 4gr sublimed ADD[[over a candle]]
ADD from the calx of the sublimed Net ADD[[3gr]]
ADD rose heavily & in the bottom after the first sublimation remained above 5gr which being ground & sublimed

last fat & clammy & being put into retort 79
 & y^e glasses wash two or three times & y^e
 washings pourd into the retort & distilled there
 came over first insipid flegm then a little
 acid spirit of R: then y^e salts sublimed wth out
 any fluid spirit of ϕ . The salt of y^e first
 sublimed in a dry form like * & weighed 18^{gr}
 & y^e fress 6^{gr}. This salt was a little
 fusible & but a little. The salt of y^e second
 sublimed in a crystalline form wth out any
 dry flowers. first there ascended a little
 salt mixt with flegm w^{ch} stood in y^e
 neck of y^e retort like fluid dew, but
 after a while dried. Then sublimed a
 heavy fusible white salt something more
 fusible then ϕ w^{ch} stood fluid in y^e
 neck of the Retort till y^e glass was taken

* 120^{gr} in boiling water 3 or 4 hours. then add
 to it ∇ 60^{gr} ϕ 60^{gr} & boiled again
 & y^e salt philtred left ϕ 274^{gr}. so y^e salt
 was ~~increased~~ increased 34^{gr}.
 Item * 120^{gr} ∇ 360^{gr} ϕ 480^{gr} ϕ 260^{gr}
 boiled together 3 or 4 hours & y^e salt philtred
 left ϕ 280^{gr} so y^e salt was increased 20^{gr}.
 The philtred salts being evaporated were
 at last fat & clammy, & being put into retort
 & y^e glasses wash two or three times & y^e
 washings pourd into y^e retort & distilled, there
 came over first insipid flegm, then a little
 spirit of R, the y^e salts sublimed wth out any
 fluid spirit of ϕ . The salt of y^e first sublimed
 in a dry form like * & weighed 18^{gr}, & the fress
 6^{gr}. This salt was a little fusible & but a
 little. The second sublimed wth out any dry flowers
 first there ascended a little salt mixt wth flegm
 w^{ch} stood in y^e neck y^e retort like fluid dew. But

COLL-MS: Portsmouth Add. MS. 3975, f.142r
MS-TITLE: Idea Of a table booke

any fluid spirit of S . The salt of the first sublimed in a dry form like \star & weighed 18gr & the feces 6gr. This salt was a little fusible & but a little. The salt of the second sublimed in a crystalline form with out any dry flowers. First there ascended a little salt mixt with flegm which stood in the neck of the retort like fluid dew, but after a while dried. Then sublimed a heavy fusible white salt something more fusible then S which stood fluid in the neck of the Retort till the glass was taken of the fire & then soon congealed. This cristalline fusible sublimed salt weighed 22 1/2 grains. & the feces which remained below weighed 7gr. So then in this last Experiment the ∇ , A , S , \star , volatil salt & feces were as 480, 360, 240, 120, 22 1/2, 7 or as DEL[[192]]DEL 64, 48, 32, 16, 3, 1. This last fusible salt ran totally per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr sublimed from Lead ore 12gr, the ore was not thereby increased in weight nor made fusible, no not upon a red hot iron, nor let go any salt in boiling water. Of the FOLIO[[142v]]FOLIO same fusible salt 4gr sublimed over a candle from the calx of the sublimed Net 3gr rose heavily & in the bottom after the first sublimation remained about 5gr which being ground & sublimed again came to 4gr & after another sublimation to between

COLL-MS: Portsmouth Add. MS. 3973, f.032v
MS-TITLE: Experiments

washings poured into the retorts & distilled, there came over first insipid flegm, then a little acid spirit of VR , the salts sublimed with out any fluid spirit of S . The salt of the first sublimed in a dry form like \star & weighed 18gr, & the feces 6gr. This salt was a little fusible & but a little. The second sublimed ADD[[in a crystalline form]]ADD with out any dry flowers first there ascended a little salt mixt with flegm which stood in the neck the retort like fluid dew, But FOLIO[[33r]]FOLIO after a while dried. Then sublimed a heavy fusible ADD[[white]]ADD salt something more fusible then S which stood fluid in the neck of the retort till the glass was taken off the fire & then soon congealed. This ADD[[crystalline]]ADD fusible sublimed salt weighed 22 1/2gr. And the feces which remained below weighed 7gr. So then in DEL[[this last experi]]DEL this last experiment the ∇ , VR , S , \star , volatil salt & feces were as 480. 360. 240. 120. 22 1/2. 7 or as 192. 144. 96. 48. 9. 3. or as. 64. 48. 32. 16. 3. 1. This last fusible salt ran totally DEL[[S 2 ounces P 1 ounce gave a regulus scarce distinguis]]DEL per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr being sublimed from Lead ore 12gr the oare was not thereby ADD[[increased in weight nor]]ADD made fusible not upon a red hot iron DEL[[&]]DEL nor let go any salt in boiling water. Of the same fusible salt 4gr sublimed ADD[[over a candle]]ADD from the calx of the sublimed Net ADD[[3gr]]ADD rose heavily & in the bottom after the first sublimation remained above 5gr which being ground & sublimed

COLL-MS: Portsmouth Add. MS. 3975, f.142r
MS-TITLE: Idea Of a table booke

any fluid spirit of ☿. The salt of the first sublimed in a dry form like * & weighed 18gr & the feces 6gr. This salt was a little fusible & but a little. The salt of the second sublimed in a crystalline form with out any dry flowers. First there ascended a little salt mixt with flegm which stood in the neck of the retort like fluid dew, but after a while dried. Then sublimed a heavy fusible white salt something more fusible then ☿ which stood fluid in the neck of the Retort till the glass was taken of the fire & then soon congealed. This cristalline fusible sublimed salt weighed 22 1/2 grains. & the feces which remained below weighd 7gr. So then in this last Experiment the ▽, A, ☿, *, volatil salt & feces were as 480, 360, 240, 120, 22 1/2, 7 or as DEL[[192]] 64, 48, 32, 16, 3, 1. This last fusible salt ran totally per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr sublimed from Lead ore 12gr, the ore was not thereby increased in weight nor made fusible, no not upon a red hot iron, nor let go any salt in boiling water. Of the FOLIO[[142v]]FOLIO same fusible salt 4gr sublimed over a candle from the calx of the sublimed Net 3gr rose heavily & in the bottom after the first sublimation remained about 5gr which being ground & sublimed again came to 4gr & after another sublimation to between

COLL-MS: Portsmouth Add. MS. 3973, f.032v
MS-TITLE: Experiments

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COLL-MS: Portsmouth Add. MS. 3975, f.142r
MS-TITLE: Idea Of a table booke

any fluid spirit of ☿. The salt of the first sublimed in a dry form like * & weighed 18gr & the feces 6gr. This salt was a little fusible & but a little. The salt of the second sublimed in a crystalline form with out any dry flowers. First there ascended a little salt mixt with flegm which stood in the neck of the retort like fluid dew, but after a while dried. Then sublimed a heavy fusible white salt something more fusible then ☿ which stood fluid in the neck of the Retort till the glass was taken off the fire & then soon congealed. This cristalline fusible sublimed salt weighed 22 1/2 grains. & the feces which remained below weighed 7gr. So then in this last Experiment the ▽, A, ☿, *, volatil salt & feces were as 480, 360, 240, 120, 22 1/2, 7 or as DEL[[192]]
DEL 64, 48, 32, 16, 3, 1. This last fusible salt ran totally per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr sublimed from Lead ore 12gr, the ore was not thereby increased in weight nor made fusible, no not upon a red hot iron, nor let go any salt in boiling water. Of the FOLIO[[142v]]
FOLIO same fusible salt 4gr sublimed over a candle from the calx of the sublimed Net 3gr rose heavily & in the bottom after the first sublimation remained about 5gr which being ground & sublimed again came to 4gr & after another sublimation to between

COLL-MS: Portsmouth Add. MS. 3973, f.032v
MS-TITLE: Experiments

washings poured into the retorts & distilled, there came over first insipid flegm, then a little acid spirit of VR, the salts sublimed with out any fluid spirit of ☿. The salt of the first sublimed in a dry form like * & weighed 18gr, & the feces 6gr. This salt was a little fusible & but a little. The second sublimed ADD[[in a crystalline form]]
ADD with out any dry flowers first there ascended a little salt mixt with flegm which stood in the neck the retort like fluid dew. But FOLIO[[33r]]
FOLIO after a while dried. Then sublimed a heavy fusible ADD[[white]]
ADD salt something more fusible then ☿ which stood fluid in the neck of the retort till the glass was taken off the fire & then soon congealed. This ADD[[crystalline]]
ADD fusible sublimed salt weighed 22 1/2gr. And the feces which remained below weighed 7gr. So then in DEL[[this last experi]]
DEL this last experiment the ▽, VR, ☿, *, volatil salt & feces were as 480. 360. 240. 120. 22 1/2. 7 or as 192. 144. 96. 48. 9. 3. or as. 64. 48. 32. 16. 3. 1. This last fusible salt ran totally DEL[[☿ 2 ounces 2/3 1 ounce gave a regulus scarce distinguis]]
DEL per deliquium into a very clear liquor with out any feces & easily dried again & in drying became white. Of this salt 3gr being sublimed from Lead ore 12gr the oare was not thereby ADD[[increased in weight nor]]
ADD made fusible not upon a red hot iron DEL[[&]]
DEL nor let go any salt in boiling water. Of the same fusible salt 4gr sublimed ADD[[over a candle]]
ADD from the calx of the sublimed Net ADD[[3gr]]
ADD rose heavily & in the bottom after the first sublimation remained above 5gr which being ground & sublimed

Query set:

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View Correlated Documents and Terms

View document and term correlations

Search type:

- ☐ Document-document correlations.
- ☐ Chunk-chunk correlations.
- ☒ Term-term correlations.
- ☐ Term-chunk (Doc) correlations.
- ☐ Chunk (Doc)-term correlations.
- ☐ Compose a query using terms.
- ☐ Compose a query using chunks.

Chunk size:

- ☒ Use 250-word chunks.
- ☐ Use 1000-word chunks.

Output type:

- ☒ List results in descending order.
- ☐ List results for one document in page order.
- ☐ List results by term alphabetically.
- ☐ List results in document catalog order.
- ☐ Networked graph of correlations for NWB.
- ☐ CSV for Excel XY of Term↔Doc correlations.

Scope of correlated pairs to return:

- ☒ Return all correlations above the selected correlation value.
- ☐ Return only correlations between selected documents or terms.
- ☐ Return correlations within one document. (Doc-Doc only.)
- ☐ Return all and report the presence of terms. (Term↔Doc only.)
- ☐ Return and report only if terms are present. (Term↔Doc only.)

[Open a new LSA viewer window.](#)

Terms: All terms Choose one or more terms. [Add term to query set](#)

Regex pattern to select from list of terms: / vitriol[1]?\$ / [Add matches to query set](#)

Query set:

vitriol
vitrioll

[Clear query set](#) [Run Search](#)

Lowest term-term correlation value to inspect: 0.9

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alom	~	vitriol	0.874430
vitriol	~	vitriols	0.802967
hungary	~	vitriol	0.797186
possesses	~	vitriol	0.775876
oars	~	vitriol	0.751007
vitriol	~	†	0.740279
preferred	~	vitriol	0.739874
approaches	~	vitriol	0.729288
minerals	~	vitriol	0.718933
goldish	~	vitriol	0.711289
asketh	~	vitriol	0.702583
laxative	~	vitriol	0.687676
horrid	~	vitriol	0.680243
jaspis	~	vitriol	0.674377
desireth	~	vitriol	0.665986
commotions	~	vitriol	0.665961
rarefies	~	vitriol	0.665961
humidities	~	vitriol	0.664740

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vitriol	~	British Library Add. Mss 44888, f.009r_2	0.545168
vitrioll	~	Bodleian Don b.15, f.001r	0.606333
vitrioll	~	Bodleian Don b.15, f.001r_2	0.627972 (present)
vitrioll	~	Bodleian Don b.15, f.001r_3	0.648435
vitrioll	~	Bodleian Don b.15, f.001r_4	0.500105 (present)
vitrioll	~	Bodleian Don b.15, f.002r	0.516664
vitrioll	~	Bodleian Don b.15, f.002r_3	0.623260 (present)
vitrioll	~	Bodleian Don b.15, f.002v	0.664058 (present)
vitrioll	~	Bodleian Don b.15, f.004r	0.630768 (present)
vitrioll	~	Bodleian Don b.15, f.004r_4	0.568671
vitrioll	~	Bodleian Don b.15, f.004v_3	0.670457
vitrioll	~	Bodleian Don b.15, f.004v_4	0.516127 (present)
vitrioll	~	Bodleian Don b.15, f.005r	0.553388
vitrioll	~	Bodleian Don b.15, f.005r_2	0.501582 (present)
vitrioll	~	Bodleian Don b.15, f.005v_2	0.516277 (present)
vitrioll	~	Bodleian Don b.15, f.005v_3	0.745460 (present)
vitrioll	~	Bodleian Don b.15, f.006r	0.500105 (present)

Done

zotero

